OF ATTORNEY FOR UTILITY OR DESIGN  PATENT APPLICATION  Declaration  Submitted with Submitted after Initial Initial Filing Filing (surcharge 37 CFR 1.16(e) required)  As a below named inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  Ibelieve I am the original, first and sole inventor (if only one name is litted below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASSD PHOTODETECTORS AND MODULATORS  (Title of the Invention)  the specification of which  was filed on  01/31/2006  as U.S. Application Serial No.  10/366,686  Filing Date  Inventory  Not yet assigned  Not yet assigned  Not yet assigned  Filing Date  Filing Date  Not yet assigned  Not yet assigned  Not yet assigned  Filing Date  Not yet assigned  Not yet assigned  Filing Date  Inventory an original, first and joint inventor (if plural names are listed below) or an original, first and joint inventor (if plural names are listed below) or an original, first and joint inventor (if plural names are listed below) or an original, first and joint inventor (if plural names are listed below) or an original, first and joint inventor (if plural names are listed below) or an original, first and joint inventor (if plural names are listed below) or an original, first and joint inventor (if plural names are listed below).  (Title of the Invention)  the specification of which  was filed on  01/31/2006  as U.S. Application Serial Number (and the contents of the above-identified application, including the claims, as amended by any amendment specifically original first and joint inventor inv	DECLARATION A	ND POWE	Attorney De	Attorney Docket No. MIT-166							
PATENT APPLICATION    Declaration   Filing (aureharge   Sing (aureharge	OF ATTORNEY FO	R UTILITY	Y First Named	First Named Inventor Liu							
Declaration Submitted with Submitted after Initial Initial Filing Filing (surcharge 37 CFR 1.16(e) required)  As a below named Inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  I believe I am the original, first and solo inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASED PHOTODETECTORS AND MODULATORS  (Title of the Invention)  the specification of which  was filed on 01/31/2006 as U.S. Application Serial (No. 10/566,686  and was amended on 01/31/2006 as U.S. Application serial to be a material to patent be possible between the filing date of the prior application, and the national or PCT internation known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  I hereby claim foreign priority benefits under 33 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application on which priority is claimed.  Prior Foreign Application  Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.  I hereby claim the benefit of any United States provisional application(s) listed below.  Application Serial Number(s)  Filing Date (MM/DD/YYYY)	OR DESI	GN		C	OMPLETE I	IF KNOWN					
Submitted with Submitted after Initial Initial Filling Filling (surcharge 37 CFR 1.16(e) required)  As a below named Inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject metter which is claimed and for which a patent is sought on the invention entitled:  METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASED PHOTODETECTORS AND MODULATORS  (Title of the Invention)  the specification of which  was filed on 01/31/2006 as U.S. Application Serial (No. 10/366,686 and was amended on 01/31/2006.  I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.  I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in 37 CFR 1.36, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (1), or 365(b) of any foreign application(s) for patent, or inventor's curilleate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application (or of patent, or inventor's curilleate(s), or 65(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application on which priority is claimed.  Prior Foreign Application  Number(e)  Country	PATENT APPLI	CATION	Application	Application Serial Number 10/566,68			36				
Initial Filing Filing (surcharge 37 CFR 1.16(e) required)  As a below named Inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  Ibclieve I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASED PHOTODETECTORS AND MODULATORS  (Title of the Invention)  the specification of which  was filed on 01/31/2006 as U.S. Application Serial No. 10/566,686  I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.  I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentiability as defined in 37 CFR 1.56, including for continuation-in-part application, as defined in 37 CFR 1.56, including for continuation-in-part application as defined in 37 CFR 1.56, including for continuation-in-part application, increase priority benefits under 35 U.S.C. 119(e)-(d) or (1), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of Country  Additional foreign application numbers are listed on a supplemental priority data sheet attached herete.  I hereby claim the benefit of any United States provisional application(s) listed below.  Application Serial Number(s)  Filing Date (MM/DD/YYYY)	☐ Declaration 🖾 Dec	laration	Filing Date		January 31	1, 2006					
As a below named Inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  I believe I am the original, first and solo inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled;  METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASED PHOTODETECTORS AND MODULATORS  (Title of the Invention)  the specification of which  was filed on 01/31/2006 as U.S. Application Serial No. 10/566,686  and was amended on 01/31/2006.  I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.  I scknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-inpart application.  I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (1), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application on which priority is claimed.  Priority  Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.  I hereby claim the benefit of any United States provisional application(s) listed below.  Application Serial Number(s)  Filing Date (MM/DD/YYYY)	Submitted with Subn	itted after Initial	Group Art	Unit	Not yet as	signed					
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My residence, mailing address, and citizenship are as stated below next to my name.  I believe I am the original, first and solo inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASED PHOTODETECTORS AND MODULATORS  (Title of the Invention)  the specification of which  was filed on 01/31/2006 as U.S. Application Serial No. 10/566,686  and was amended on 01/31/2006.  I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.  I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.  Prior Foreign Application  Country  Foreign Edition  Country  Foreign Edition  Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.  I hereby claim the benefit of any United States provisional application(s) listed below.  Application Serial Number(s)  Filing Date (MIM/DD/YYYY)	37 C	FR 1.16(c) requir	red)								
method and Structure of Strain Control of Sice Based Photodetectors and Modulators  (Tille of the Invention)  the specification of which  was filed on 01/31/2006 as U.S. Application Serial No. 10/566,686  and was amended on 01/31/2006.  I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.  I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's Certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.  Prior Foreign Application Number(s)  Country  Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.  I hereby claim the benefit of any United States provisional application(s) listed below.  Application Serial Number(s)  Filing Date (MM/DD/YYYY)	My residence, mailing address, and citizenship are as stated below next to my name.										
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I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.  Prior Foreign Application  Number(s)  Country  Rot Claimed  Priority  Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.  I hereby claim the benefit of any United States provisional application(s) listed below.  Application Serial Number(s)  Filing Date (MM/DD/YYYY)											
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Declaration and Power of Attorney for Utility or Design Patent Application Serial No. 10/566,686 Atty. Docket No. MIT-166 Page 2 of 4

Declaration and Power of Attorney for Utility or Design Fateut Application
I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structural paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational the matter of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structural paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structure of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structure of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structure of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structure of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structure of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose informational structure of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information of the duty to disclose information of the duty to disclose information of the duty to disclose informa

U.S. Parent Application or PCT Parent Scrial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US2004/024747	07/29/2004	

As a named inventor, I hereby appoint the registered patent practitioners associated with the following Customer Number as my/our attorney(s) and/or agent(s) to prosecute the above-identified patent application and any applications claiming priority thereto, and to transact all business in the United States Patent and Trademark Office connected therewith. I acknowledge that the list of registered patent practitioners associated with the Customer Number may be amended from time to time. In the event that I assign or am under an obligation to assign my entire right, title and interest in the above-identified patent application and the invention(s) disclosed therein to another ("Assignee(s)"), I hereby acknowledge that I relinquish my right to revoke this Power of Attorney. Purther, I hereby authorize the registered patent practitioners associated with the following Customer Number to accept and follow instructions from the Assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application or any application claiming priority thereto without direct communication between the registered patent practitioner(s) and me.

## **CUSTOMER NUMBER 051414**

Please direct all correspondence for the above-identified patent application to the address associated with the above Customer Number.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Jifeng Given Nam		Liu									
Inventor's Signature		Jifr L				·	Date	<b>Ø</b>	07/20/2006		
Residence	City	Cambridge	State	MA	Country	USA		Citizenship	China		
Mailing Address	70 Pa	cific Street, Ap	L 617	1		<del></del>					
Mailing Address (In. 2)	City	Cambridge	State	MA	ZIP	02139	Cour	itry	USA		

Declaration and Power of Attorney for Utility or Design Patent Application Serial No. 10/566,686 Atty. Docket No. MIT-166 Page 3 of 4

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Name of Additional Join	t Invent	or, if any:									
Given Nam	e (first a	nd middle [if a	ny])		Family Name or Surname						
Douglas D.					Cannon						
Inventor's Signature	D	rughar lo	amu	~			Date 7/2/06				
Residence	City	Somerville	State	MA	Country	USA	Citi	Citizenship USA			
Mailing Address	20 Am	sden Street	<del></del>	.,,					,		
Mailing Address (ln. 2)	City	Arlington	State	MA	ŻIP	02474	Country		USA		
Name of Additional Join	t Invent	or, if any:									
Given Nam	e (first a	nd middle (if ar	ıy])			Fami	ly Name or S	urname			
Kazumi					Wada						
Inventor's Signature							Date				
Residence	City	Lexington	State	MA	Country	UŞA	Cit	izenship	Japan		
Mailing Address	23 Hil	Street			<u> </u>						
Mailing Address (in. 2)	City	Lexington	State	MA	ZIP	02421	Country		USA		
Name of Additional Join	nt Inven	tor, if any:		-							
Given Nam	e (first a	nd middle (if a	ny])				ly Name or	Surname			
Samerkhae					Jongthamn	nanurak 					
Inventor's Signature					Date						
Residence	City	Cambridge	State	MA	Country	USA	Ci	izenship	USA		
Mailing Address	70 Pa	cific Street, A	pt. 112B								
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02139	Country		USA		
Name of Additional Joi	nt Inver	ntor, if any:	1	<u> </u>							
Given Name (first and middle [if any])						Fam	ily Name or	Surname			
David T.	iic (iiiut				Danielson	-					
Inventor's Signature							Date				
Residence	City	Somerville	State	MA	Country	USA	Ç	itizenship	USA		
Mailing Address	265	Elm Street, Ap	t. 3	<del>-</del>							
Mailing Address (In. 2)			State	MA	ZIP	02143	Country	,	USA		
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Declaration and Power of Attorney for Utility or Design Patent Application Serial No. 10/566,686 Atty. Docket No. MIT-166 Page 3 of 4

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Name of Additional Join	t Invent	tor, if any:								
Giyen Nan	ne (first :	and middle [if a	ny])		Family Name or Surname					
Douglas D.					Cannon					
Inventor's Signature			-,				Date			
Residence	City	Somerville	State	MA	Country	USA		Citizens	ship	USA
Mailing Address	20 Am	O Amsden Street								
Mailing Address (In. 2)	City	Arlington	State	MA	ZIP	02474	Coun	try		USA
Name of Additional Joint Inventor, if any:										
Given Nam	c (first a	nd middle (if an	y])			Family	Name	or Sum	ame	
Kazumi					Wada					
Inventor's Signature	I''	* .	<del></del>				Date			
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Residence	City	Lexington	State	MA	Country	USA		Citizens	ship	Јарав
Mailing Address	23 Hil	l Street	<u> </u>			<u></u>				
Mailing Address (In. 2)	City	Lexington	State	MA	ZIP	02421	Country U		USA	
Name of Additional Join	t Inven	tor, if any:				***************************************				
Given Nato	ç (first a	nd middle (if ar	ıy])				Name	or Surns	atne	
Samerkhae		_			Jougthamor	anurak				
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